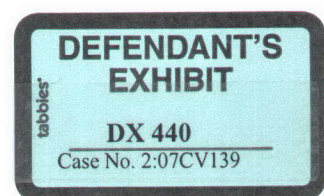


# EXHIBIT 14



# Biacore measurements for the interaction between captured antibody (25 µg/ml) and soluble rhTNF $\alpha$ (2.5 - 1000 nM)

Sample	Ab Class	Captured antibody	Stoich. range	Individual Biacore Kinetic Rate Parameters			K <sub>D</sub> (M)
				On-rate (M <sup>-1</sup> s <sup>-1</sup> )	Off-rate (s <sup>-1</sup> )		
1	Murine IgG	Peptech 001	0.23 - 0.47	1.04E+06	5.02E-04		4.83E-10
2	Murine IgG	Peptech 25	0.31 - 0.64	8.31E+05	1.85E-04		2.23E-10
3	Murine IgG	Peptech 37	- 0.03 - 0.09 <sup>c</sup>	4.25E+05	1.47E-03		3.45E-09
4	Murine IgG	<sup>ab</sup> Peptech 42	- 0.01 - 0.46	3.73E+04	3.85E-04		1.03E-08
5	Murine IgG	<sup>ab</sup> Peptech 53	- 0.04 - 0.60	4.08E+04	4.08E-04		9.99E-09
6	Murine IgG	Peptech 54	0.27 - 0.52	6.61E+05	3.37E-04		5.10E-10
7	Human IgG1	Remicade	0.45 - 0.81	6.26E+05	3.56E-05		5.69E-11
8	Murine IgG3	Segard	0.55 - 0.91	6.44E+05	1.62E-05		2.52E-11
9	Human IgG1	D2E7	0.47 - 1.45	3.44E+05	6.84E-05		1.99E-10

<sup>a</sup>1 : 1 Langmuir model did not fit the experimental data very well.

<sup>b</sup>The shape of the experimental dissociation phase suggests that there might be more than one process involved.

<sup>c</sup>Analyte response level was very low.

ABBOTT-HUM 0145658  
CONFIDENTIAL

PLAINTIFFS'  
EXHIBIT 68  
2:07cv139

CONFIDENTIAL

ABT00161672

# Reactivity pattern matrix showing the binding ability of pairs of Mabs to rhTNF $\alpha$

## Pair-wise epitope mapping by Biacore

Sample	2° Soluble Immune complex (Ab:Ag ratio = 4:1)	1° Captured rhTNF $\alpha$ antagonist, 25 $\mu$ g/ml		
		Remicade	D2E7	Segard
1	rhTNF $\alpha$	+	+	+
2	rhTNF $\alpha$ + Mouse IgG	+	+	+
3	rhTNF $\alpha$ + Human IgG	+	+	+
4	rhTNF $\alpha$ + Peptech Mab 1	+	+	+
5	rhTNF $\alpha$ + Peptech Mab 25	+	-	+
6	rhTNF $\alpha$ + Peptech Mab 37	+	+	+
7	rhTNF $\alpha$ + Peptech Mab 42	-	?	+
8	rhTNF $\alpha$ + Peptech Mab 53	-	?	+
9	rhTNF $\alpha$ + Peptech Mab 54	+	+	+
10	rhTNF $\alpha$ + Remicade	-	-	-
11	rhTNF $\alpha$ + Segard	-	-	-
12	rhTNF $\alpha$ + D2E7	-	-	-

+ Pairs of Mabs that bind concurrently  
- Pairs of Mabs that interfere in binding

ABBOTT-HUM 0145659  
CONFIDENTIAL

CONFIDENTIAL

ABT00161673

Sample	Ab Class	Captured antibody	Stoich. range	Individual Biacore Kinetic Rate Parameters	
				On-rate (M <sup>-1</sup> s <sup>-1</sup> )	Off-rate (s <sup>-1</sup> )
1	Murine IgG	Peptech 001	0.23 - 0.47	1.04E+06	5.02E-04
2	Murine IgG	Peptech 25	0.31 - 0.64	8.31E+05	1.85E-04
3	Murine IgG	Peptech 37	- 0.03 - 0.09 <sup>c</sup>	4.25E+05	1.47E-03
4	Murine IgG	<sup>ab</sup> Peptech 42	- 0.01 - 0.46	3.73E+04	3.85E-04
5	Murine IgG	<sup>ab</sup> Peptech 53	- 0.04 - 0.60	4.08E+04	4.08E-04
6	Murine IgG	Peptech 54	0.27 - 0.52	6.61E+05	3.37E-04
7	Human IgG1	Remicade	0.45 - 0.81	6.26E+05	3.56E-05
8	Murine IgG3	Segard	0.55 - 0.91	6.44E+05	1.62E-05
9	Human IgG1	D2E7	0.47 - 1.45	3.44E+05	6.84E-05
10	Human IgG1	<sup>d</sup> D2E7		4.82E+05	3.08E-05

<sup>a</sup>1 : 1 Langmuir model did not fit the experimental data very well.

<sup>b</sup>The shape of the experimental dissociation phase suggests that there might be more than one process involved.

<sup>c</sup>Analyte response level was very low.

<sup>d</sup>AFP04C D2E7 Reference standard tested May.15.2002

ABBOTT-HUM 0145660  
CONFIDENTIAL

K<sub>b</sub> (M)  
4.83E-10  
2.23E-10  
3.45E-09  
1.03E-08  
9.99E-09  
5.10E-10  
5.69E-11  
2.52E-11  
1.99E-10  
6.39E-11

ABBOTT-HUM 0145661  
CONFIDENTIAL

## Pair-wise epitope mapping by Biacore using captured Segard

Sample	2° Soluble Immune complex (Ab:Ag ratio = 4:1)	1° Captured rhTNF $\alpha$ antagonist, 25 $\mu$ g/ml			Do antibodies share a similar binding epitope?
		Segard (RU's)	Binding		
1	rhTNF $\alpha$	1176	+		Not applicable
2	rhTNF $\alpha$ + Mouse IgG	1010	+		Not applicable
3	rhTNF $\alpha$ + Human IgG	922	+		Not applicable
4	rhTNF $\alpha$ + Peptech Mab 1	1005	+		No
5	rhTNF $\alpha$ + Peptech Mab 25	637	+		No
6	rhTNF $\alpha$ + Peptech Mab 37	1052	+		No
7	rhTNF $\alpha$ + Peptech Mab 42	458	+		No
8	rhTNF $\alpha$ + Peptech Mab 53	411	+		No
9	rhTNF $\alpha$ + Peptech Mab 54	907	+		No
10	rhTNF $\alpha$ + Remicade	10	-		Yes
11	rhTNF $\alpha$ + Segard	106	-		Yes
12	rhTNF $\alpha$ + D2E7	- 26	-		Yes
1° Captured rhTNF $\alpha$ antagonist, 25 $\mu$ g/ml					
Sample	2° Soluble Antibody only	1° Captured rhTNF $\alpha$ antagonist, 25 $\mu$ g/ml			Comment
		Segard (RU's)	Binding		
1	rhTNF $\alpha$	1091	+		Stoichiometry = 0.90
2	Mouse IgG	- 3	-		Isotype matched control
3	Human IgG	- 13	-		Isotype matched control
4	Peptech Mab 1	1	-		
5	Peptech Mab 25	- 21	-		
6	Peptech Mab 37	5	-		
7	Peptech Mab 42	- 17	-		
8	Peptech Mab 53	- 19	-		
9	Peptech Mab 54	- 7	-		
10	Remicade	- 31	-		
11	Segard	131	-		Very little unwanted binding
12	D2E7	- 30	-		

ABBOTT-HUM 0145662  
CONFIDENTIAL

CONFIDENTIAL

ABT00161676

## Pair-wise epitope mapping by Biacore using captured D2E7

2° Soluble Immune complex (Ab:Ag ratio = 4:1)		1° Captured rhTNF $\alpha$ antagonist, 25 $\mu$ g/ml		Do antibodies share a similar binding epitope?	
Sample		D2E7 (RU's)	Binding		
1	rhTNF $\alpha$	1245	+		Not applicable
2	rhTNF $\alpha$ + Mouse IgG	929	+		Not applicable
3	rhTNF $\alpha$ + Human IgG	951	+		Not applicable
4	rhTNF $\alpha$ + Peptech Mab 1	1130	+		No
5	rhTNF $\alpha$ + Peptech Mab 25	- 40	-		Yes
6	rhTNF $\alpha$ + Peptech Mab 37	968	+		No
7	rhTNF $\alpha$ + Peptech Mab 42	216	?		Maybe overlapping epitopes
8	rhTNF $\alpha$ + Peptech Mab 53	189	?		Maybe overlapping epitopes
9	rhTNF $\alpha$ + Peptech Mab 54	541	+		No
10	rhTNF $\alpha$ + Remicade	80	-		Yes
11	rhTNF $\alpha$ + Segard	- 50	-		Yes
12	rhTNF $\alpha$ + D2E7	107	-		Yes
2° Soluble Antibody only		1° Captured rhTNF $\alpha$ antagonist, 25 $\mu$ g/ml		Comment	
Sample		D2E7 (RU's)	Binding		
1	rhTNF $\alpha$	1236	+		Stoichiometry = 0.90
2	Mouse IgG	- 50	-		Isotype matched control
3	Human IgG	76	-		Isotype matched control
4	Peptech Mab 1	- 53	-		
5	Peptech Mab 25	- 56	-		
6	Peptech Mab 37	- 53	-		
7	Peptech Mab 42	- 50	-		
8	Peptech Mab 53	- 46	-		
9	Peptech Mab 54	- 48	-		
10	Remicade	60	-		Very little unwanted binding
11	Segard	- 47	-		
12	D2E7	98	-		Very little unwanted binding

ABBOTT-HUM 0145663  
CONFIDENTIAL

CONFIDENTIAL

ABT00161677

## Pair-wise epitope mapping by Biacore using captured Remicade

Sample	2 <sup>nd</sup> Soluble Immune complex (Ab:Ag ratio = 4:1)	1 <sup>st</sup> Captured rhTNF $\alpha$ antagonist, 25 $\mu$ g/ml			Do antibodies share a similar binding epitope?
		Remicade (RU's)	Binding		
1	rhTNF $\alpha$	1193	+		Not applicable
2	rhTNF $\alpha$ + Mouse IgG	868	+		Not applicable
3	rhTNF $\alpha$ + Human IgG	872	+		Not applicable
4	rhTNF $\alpha$ + Peptech Mab 1	1099	+		No
5	rhTNF $\alpha$ + Peptech Mab 25	614	+		No
6	rhTNF $\alpha$ + Peptech Mab 37	959	+		No
7	rhTNF $\alpha$ + Peptech Mab 42	45	-		Yes
8	rhTNF $\alpha$ + Peptech Mab 53	27	-		Yes
9	rhTNF $\alpha$ + Peptech Mab 54	788	+		No
10	rhTNF $\alpha$ + Remicade	113	-		Yes
11	rhTNF $\alpha$ + Segard	- 48	-		Yes
12	rhTNF $\alpha$ + D2E7	91	-		Yes
1 <sup>st</sup> Captured rhTNF $\alpha$ antagonist, 25 $\mu$ g/ml					
Sample	2 <sup>nd</sup> Soluble Antibody only	1 <sup>st</sup> Captured rhTNF $\alpha$ antagonist, 25 $\mu$ g/ml			Comment
		Remicade (RU's)	Binding		
1	rhTNF $\alpha$	1268	+		Stoichiometry = 0.88
2	Mouse IgG	- 62	-		Isotype matched control
3	Human IgG	49	-		Isotype matched control
4	Peptech Mab 1	- 59	-		
5	Peptech Mab 25	- 53	-		
6	Peptech Mab 37	- 51	-		
7	Peptech Mab 42	- 51	-		
8	Peptech Mab 53	- 41	-		
9	Peptech Mab 54	- 51	-		
10	Remicade	106	-		Very little unwanted binding
11	Segard	- 43	-		
12	D2E7	78	-		Very little unwanted binding

ABBOTT-HUM 0145664  
CONFIDENTIAL

CONFIDENTIAL

ABT00161678



**Pair-wise epitope mapping by Biacore**

Sample	2° Soluble Immune complex (Ab:Ag ratio = 4:1)	1° Captured rhTNF $\alpha$ antagonist, 25 $\mu$ g/ml		
		Remicade	D2E7	Segard
1	rhTNF $\alpha$	+	+	+
2	rhTNF $\alpha$ + Mouse IgG	+	+	+
3	rhTNF $\alpha$ + Human IgG	+	+	+
4	rhTNF $\alpha$ + Peptech Mab 1	+	+	+
5	rhTNF $\alpha$ + Peptech Mab 25	+	-	+
6	rhTNF $\alpha$ + Peptech Mab 37	+	+	+
7	rhTNF $\alpha$ + Peptech Mab 42	-	?	+
8	rhTNF $\alpha$ + Peptech Mab 53	-	?	+
9	rhTNF $\alpha$ + Peptech Mab 54	+	+	+
10	rhTNF $\alpha$ + Remicade	-	-	-
11	rhTNF $\alpha$ + Segard	-	-	-
12	rhTNF $\alpha$ + D2E7	-	-	-

ABBOTT-HUM 0145665  
CONFIDENTIAL